# 256 SPRING STREET #114 • SAINT PAUL, MN 55102 • CELL PHONE 651.276.0380 EMAIL MRIVER840@TCINTERNET.NET

# ANNE HUNT

#### PROFESSIONAL EXPERIENCE

# Office of Mayor Christopher B. Coleman, Saint Paul, MN

Environmental Policy Director

January 2006 – present

- Develop and implement Mayor Coleman's sustainable policy initiatives in partnership with Saint Paul City Council and City staff, environmental organizations, businesses, labor unions, community-based organizations, utilities, and other key stakeholders to protect the City's air, water and urban landscape by focusing on energy-efficiency and conservation, clean energy supply, alternative fuels and vehicles, transportation options, recycling and waste reduction, reforestation and green spaces and water quality.
- Work with variety of community partners to make Saint Paul a leader in sustainable urban living by "acting locally" to help reverse the negative effects of global warming.
- Develop and manage numerous grant funded projects including developing new green building guidelines funded by the MN Pollution Control Agency; U.S. Department of Energy's Solar America Cities and Energy Efficiency and Conservation Block Grant programs.

# Minnesota Environmental Partnership (MEP), Saint Paul, MN

Environmental Program Coordinator & Contractor

January 2003 – December 2005

- Coordinated with MEP and its member organizations the development and implementation of the collaborative "Protect Our Water" legislative policy and campaign efforts to protect and restore Minnesota's natural resources.
- Coordinated and organized various events (e.g. Citizens' Day, Legislative Forum, legislative district meetings, etc.) for MEP and the member organizations.
- Assisted the executive director with annual budget, grant applications and reports, and other fund raising activities.
- Devised and implemented a media strategy for various campaigns with communications staff, executive director and member organizations. Responded to calls from media and direct news people to the appropriate spokesperson.
- Supervised the communications assistant and the work products of the contract lobbyist and the communications director. Oversee contracts with various MEP member organizations.
- Facilitated a collaborative process with several members of MEP to develop a strategy to analyze the environmental and conservation community's capacity to build political power and to develop an interactive website with environmental, demographic and electoral information.

## Minnesota Department of Natural Resources (DNR), Saint Paul, MN

Smart Growth Coordinator

December 2002 – December 2003

- Facilitated a collaborative process with 13 state agencies and with 60 individuals to develop a "smart growth" executive order for Governor Ventura.
- Coordinated the DNR Commissioner's "Smart Growth" policies pertaining to MN Department of Transportation's five-year transportation plan and the Metropolitan Council's *Blueprint 2020*.

# Mississippi River Relief – Big River Cleanup, Saint Paul, MN

River Cleanup Coordinator

February 2002 – September 2003

- Coordinated a ten-day Mississippi River cleanup in the Twin Cities area with over 1,200 volunteers and 50 businesses, non-profit organizations and governmental agencies collecting nearly 100 tons of garbage during the summer of 2002.
- Expanded the river cleanup during the summer of 2003 to cover 400 miles of the Mississippi River from the Twin Cities to the Quad Cities with additional volunteers and sponsors.
- Managed all aspects of fundraising, budget management, volunteer recruitment and event logistics.
- Coordinated promotional activities and media relations with communications team from several sponsors and generated over 50 media mentions each year.

# Saint Paul Neighborhood Energy Consortium, Saint Paul, MN

Executive Director

December 1988 – June 2001

- Managed \$3.5 million annual budget and increased the organization's financial resources and security by establishing an operating reserve and investment planning, increasing the annual budget and program revenues by over 300% and stabilizing relations with funders.
- Recruited, trained and supervised 20 to 30 staff annually and numerous additional interns, consultants and contractors. Worked with and implemented policies developed by the Consortium's 20-member board of directors.
- Worked collaboratively to design, implement and manage new programs for water quality and conservation, natural resources and alternative transportation. Initiated and supervised the expansion of the existing recycling and waste reduction and energy conservation programs by broadening service, educational outreach and environmental impact.
- Managed the transition of an emerging nonprofit organization into an established and nationally recognized organization through board and leadership development; coordinated and implemented long-range strategic plans; initiated new personnel, financial, investment and affirmative action policies; created competitive employee salary and benefit packages; and created and implemented organizational development plans.
- Coordinated and implemented a marketing strategy for the organization including the development of annual reports, newsletters, informational brochures, press releases and advertisements.
- Developed and strengthened the organization's capacity to participate in local, state and national public policy debates on solid waste, energy and natural resource issues with other mission-driven organizations.
- Managed development of premier "green" building with the Mississippi Market Co-op with environmentally-friendly features such as energy-efficient heating and air conditioning, water heaters and lighting systems; increased day lighting with light shelves and sky lights; reduced impervious surface by 14%; treated storm water runoff on site and increased space for bike racks and gardens; and conserved additional natural resources by using non-toxic, salvaged, recycled or recyclable materials.

#### **EDUCATION**

Bachelor of Arts in English, University of Minnesota, Minneapolis, MN

# James A. Giebel

1701 Victoria Lane Burnsville, Minnesota 55337 (H) 952.432.8646 (C) 952.412.5970 <u>jimgiebet a frontiernet.net</u>

#### **Professional Profile**

Experience includes marketing, product management, strategic planning, pricing, budgeting, with emphasis in new product development and introductions. Have managed industrial and consumer products marketed through various sales channels including direct sales, retail sales, manufacturer representatives, wholesale distributors and the consumer. Excellent oral and written communication abilities resulting in effective presentations and persuasive skills. Have achieved high customer satisfaction via quality, product performance, and distribution. An organized self-starter and team player attitude has contributed to increased market share, profitability and sales growth. Profit and loss divisional accountability ranging up to \$20 million in annual sales.

Successful new product introduction resulting in first year sales of \$3 million dollars. Initiated and completed 42 product launches and managed through product life cycles. Instructed and trained over 3000 individuals in technical and sales/marketing subject matter.

# **Employment History**

# City of Saint Paul St. Paul, MN

3/08-current

#### **Energy Coordinator**

Direct the City's efforts to reduce its overall energy consumption and the related environmental impact of energy use. Identify energy saving strategies for building operations including HVAC and lighting. Evaluate possible renewable energy installations and opportunities as well as procurement of alternative fuels for city vehicles.

#### St. Paul Public School District St. Paul, MN

6/04-2/08

#### **Director of Energy Conservation**

Responsible for implementing district wide behavioral and equipment policy changes to save the district 10% (\$800,000) of their energy budget. Conduct informational meetings with staff and students to reduce the amount of wasteful energy usage. Work directly with custodial staff to program energy management systems for optimum performance and savings. Originating and investigating ideas for alternative energy installations including solar and wind generation.

# BORGERT PRODUCTS St. Joseph, MN

1/04-5/04

#### **Director of Marketing**

Recruited to fulfill newly created position to upgrade sales force and to develop a distribution and pricing strategy. Responsible for the sales and marketing efforts in a five state area with four sales representatives selling to retail garden centers, landscape supply outlets, and wholesale concrete suppliers.

## CONKLIN COMPANY, INC. Shakopee, MN

9/94-12/03

#### Product Marketing Manager, Building Products Division

- Consistently increased average sales dollar volume by 5 to 10% annually.
- Generated \$1.8 million in sales with one product addition by bringing value to customers with service and training.
- Developed division pricing strategy and volume discount program, resulting in an 11% margin increase
- Initiated 13 new products from conceptual stage through product life cycle.
- Liaison to purchasing department for developing strategic vendor alliances with raw material suppliers and manufacturers resulting in price reductions, promotional dollar contributions, increased market share, and private label product introductions.
- Constantly analyzed competitors bidding strategies to maintain profit margins and researched their products.
- Managed and motivated a staff of 7 in marketing, market research, technical sales, warranty inspections, and customer service.
- Facilitated and presented product information seminars and sales training for architects, specifiers, and contractors, internal customers, technical support services and customer service departments to increase communication channels.
- Directed a core group of 50 independent sales representatives / contractors conducting the majority of business.
- Privileged to have been requested to participate on company strategic planning, transportation, packaging and 401K committees.

# CHEMREX INC. (Degussa) Minneapolis, MN. Coatings Product Manager, Sonneborn Building Products

8/92-8/94

- Conducted competitive market analysis for new products and potential new markets, resulting in the successful introduction of seven new value added products.
- Established and maintained national account product usage with Walmart, Circuit City, Public Storage and Autozone for increased company exposure and sales.
- Grew product line sales from \$6M to \$8M during tenure.

# **CONKLIN COMPANY, INC.** Shakopee, MN **Product Manager**, **Building Products Division**

7/83-7/92

- Led product line planning team in new product development working in conjunction with departments such as research and development, finance, manufacturing and risk management to ensure timely and profitable product introductions.
- Implemented a yearly training tour to 16 cities to introduce new products/programs, sales trends and technical instructions to distributors, contractors, developers, and architects for timely communication of product line.
- Directed national promotional programs for all print media. Introduced a contractor co-op advertising program with 75% participation in the first year.
- Targeted specific trade shows and conventions for corporate and field personnel to display and promote products to potential buyers to maintain and increase brand identity.

#### **Building Products Marketing Specialist**

- Wrote sales support literature, brochures, training manuals and technical specifications used in the promotion of 22 new products working in conjunction with in house communication department.
- Extensive interaction with design professionals, national building organizations (ICBO, BOCA) and regulatory agencies (UL, FM) to obtain and maintain product registrations and approvals.
- Scheduled and organized field tests, test sells, and conducted follow-up data collection to analyze information prior to product introductions.

# GIEBEL & ASSOCIATES Burnsville, MN Residential/Commercial Energy Auditor

1/81-6/83

Owned energy consulting company specializing in conducting energy audits for residential and commercial customers. Recommended energy saving techniques, programs and equipment dependent on their return on investment potential.

#### UNION OIL COMPANY OF CALIFORNIA Minneapolis, MN

6/76-12/80

Retail Dealer Sales Representative Manager Diversified Outlets Area Sales Representative

#### **EDUCATION**

MASTERS DEGREE – BUSINESS ADMINISTRATIONS (MBA)

Metropolitan State University, St. Paul, MN

**BACHELOR OF SCIENCE DEGREE - MARKETING** 

Ohio State University, Columbus, OH

**Certifications:** United States Green Building Council LEED AP Building Operator Certification





# Anders J. Rydaker, Technical Advisor

# **Experience Summary**

- More than 35 years of experience in the district energy field
- Developed the SWAC cooling system for Stockholm, Sweden and was involved in the deep lake/SWAC systems in the Swedish cities of Jonkoping, Upplands Vasby, Solna, Sollentuna and Sodertalje
- Developed the renewable energy combined heat and power project in Saint Paul utilizing clean urban wood residue
- Received Sweden's Prestigious Energy Prize in 2003 for the development of numerous district cooling systems in the country
- Past chair of the International District Energy Association

#### Prior Project Experience

# Vice President, FVB District Heating Engineering Inc., Sweden and US Markets

General management responsibilities for the branch office in Stockholm. Developed and marketed FVB's new branch office including market strategies, marketing, sales, customer relations and employee motivation and development. Member of the company board and was responsible for FVB's consulting services to the district energy market in the United States.

- Introduced district cooling to the Swedish market 1990
- Developed and commissioned the first district cooling system (5700 tons) in Västerås. Sweden
- Conducted district cooling feasibility studies and marketing in over ten larger cities in Sweden
- Established FVB (Fjärrvärmebyrån) as the leading consultant firm in the district cooling field in Sweden
- Project manager for a \$10 million hot water transmission line connecting two existing district heating systems in the Stockholm area
- Provided design expertise for an 80 MW hot water district heating system at Deer Island. Boston

#### Vice President, FVB Branch Office in St. Paul, Minnesota, USA

- Provided on-site district heating expertise during the construction of the St. Paul hot water distribution system and conversion of the old steam plant
- Provided district energy consultation services for Willmar Municipal Electric Company, Willmar, Minnesota
- Provided consulting services for Kent County in Michigan regarding expansion of the existing district heating system including cooling and co-generation of electricity.





# Uppsala Kraftvärme AB, Sweden

A utility which has an installed production capacity of 900 MW heat, 200 MW electricity, an annual energy production of 1,750,000 MWh and a total installed length of 190 miles of distribution pipes.

# **Project Manager, New Construction Projects**

- Construction manager for a 21 MW wood chip fired heating plant
- Construction manager for a 39 MW heat pump project, extracting waste heat from sewage water
- Construction manager for a 25 MW addition to a refuse incineration facility

## Education

Uppsala Technical College - B.S., Mechanical Engineering, Uppsala, Sweden

# BIOGRAPHICAL SKETCHES



# Kenneth W. Smith, P.E., Technical Advisor

# **Experience Summary**

- Over 24 years of professional experience in the feasibility analysis, design, and construction of a wide variety of facilities including several central heating and cooling plants ranging from small to large
- Project and Engineering Management experience on multiple projects of varying size and complexity with responsibility for budget and schedule control, contractor tendering, client liaison, contract administration, issuing change orders, evaluating and mitigating claims, preparing reports, and quality control/assurance
- Technical experience includes central energy plants (heating, cooling and power generation), medium- and low-voltage generation and distribution systems; UPS systems; data and communication systems; complex grounding systems; control systems for HVAC, chillers, boilers and power generation; and industrial and commercial lighting design
- Global project experience includes several significant domestic and international projects including Central Heating and Cooling Plant for Pentagon, Washington DC, and New Ben Gurion International Airport, Israel

# Prior Project Experience

**Rock-Tenn Renewable Energy Facility Study** — Project Manager/Senior Engineer. Project studied feasibility of new energy plant using renewable energy sources for the Rock-Tenn paper recycling plant in Saint Paul, MN.

Pentagon Central Heating and Cooling Plant; Washington, D.C. – Lead Electrical Engineer.

New Ben Gurion International Airport Terminal; Tel Aviv, Israel – Lead Electrical Engineer and Assistant Project Manager.

Steam Distribution Replacement; Picatinny Arsenal, NJ – Principal

250 MW Combined Cycle Power Plant; Faribault, MN – Principal

Substation and Primary Electrical Distribution System Upgrade for Pentagon Reservation; Washington, D.C.--Lead Electrical Engineer

Main Terminal Building Design; Denver International Airport; Denver, CO – Electrical Engineer

Utility Plant Boiler Replacement; Minnesota State University, Mankato; Mankato, MN – Principal and Lead Electrical Engineering

Central Plant Upgrade; University of Minnesota, Crookston – Principal

Central Plant Expansion for 3M World Headquarters – Principal

Chilled Water Distribution System Upgrade; O'Hare Airport; Chicago, IL – Project Manager and Lead Electrical Engineer

#### Education

North Dakota State University - B.S., Electrical Engineering University of St. Thomas - Master of Business Administration





# Nina Axelson, Project Manager

## **Experience Summary**

- Over 10 years of working with government, communities, and corporations on environmental and market transformation initiatives
- Project Management experience with coordinating project scope, work plans, staffing, contingency and risk planning, and budgets in corporate and non-profit environments
- Communications experience includes campaign development and oversight, national and local advertising, direct media relations, multi-channel integration, print media, public education, facilitation, mediation, and risk mitigation
- Technical experience includes technical studies for renewable energy, vegetative inventory, watershed districts (Mississippi River, Bridal Veil Creek, Brown's Creek), vegetative sound barrier design, and transportation and traffic safety projects

# Prior Project Experience

Rock-Tenn Renewable Energy Facility Study; St. Paul, MN — Project Coordinator

Corporate Responsibility Initiative; Best Buy Corporation; Richfield, MN — Project Manager

Bridal Veil Creek Historic Watershed Study; St. Paul, MN — Project Manager

Central Corridor Light Rail Utility Relocation; District Energy St. Paul; St. Paul, MN – Customer and Community Relations Director

Racial Justice Program; YWCA of Minneapolis; Minneapolis, MN – Public Policy Associate

MN E-Waste Initiative; Minnesota Center for Environmental Advocacy, St. Paul, MN – Legislative & Research Associate

Brown's Creek Watershed Study on Turbidity; Washington County, MN Research Associate

#### Education

University of Minnesota - B.S., Natural Resources and Environmental Studies, Policy and Law

#### **GAYLE A. PREST**

City of Minneapolis Sustainability Manager City Coordinator's Office 350 South 5<sup>th</sup> Street, Room 301M Minneapolis MN 55415 gayle.prest@ci.minneapolis.mn.us (612) 673-2931

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#### **EXPERIENCE:**

# Minneapolis Sustainability Manager Minneapolis Minnesota 2006 - present

- Oversees City's Sustainability Initiative including the development of environmental policies, regulations, and performance measures. Special emphasis on leading efforts related to climate change and renewable energy.
- Minneapolis project manager for successful Solar America Cities grant with Saint Paul. Project highlights to date include landmark solar legislation, assisted in bringing NAPCEP solar training program to area, solar trainings, solar site assessments, and engaging regulatory staff in developing more clear and consistent solar policies and regulatory processes.
- . Co –Lead for Minneapolis Energy Efficiency Community Block Grant recent application.
- Manages various grants and contracts including EPA grants, Hennepin County Grants and 50+ pass through climate change grants to local organizations.
- Regular contact with citizens, policy makers, governmental agencies, media and environmental organizations on City's sustainability efforts.
- Coordinates monthly Citizens Environmental Advisory Committee and quarterly Environmental Coordinating Team meetings.
- . Represents department or City on special committees and before governmental bodies.

# Minneapolis Environmental Program Manager Minneapolis Minnesota 2005 - 2006

- Supervised Environmental Services staff responsible for environmental regulations, sustainability policy and the rain leader disconnect program.
- Developed Sustainability Indicators and Targets.

# Minneapolis Public Works Interagency Coordinator Minneapolis, Minnesota 2001 – 2005

- Improved professional relationships between Public Works and a wide variety of organizations including regional agencies, watershed organizations, Minneapolis Park and Recreational Board, other City agencies, neighborhood organizations and environmental groups.
- Improved Public Works communications efforts.
- Coordinated Public Works' role in the development of policy and structure related to Combined Sewer Overflow Program, Environmental Coordinating Team, Water Quality Monitoring Task Force, and Sustainability Plan.

# Dakota County Environmental Initiatives Supervisor Dakota County, Minnesota 1992 - 2001

- . Responsible for all facets of Section including an annual budget of S3 million and six staff.
- Managed variety of grants from the State, also developed and distributed annual grants to communities.
- . Responsible for contracts dealing with household hazardous waste facility, recycling collection and facility, large organic composting site.
- . Managed the development of major environmental policy, including the Solid Waste Master Plan and the framework for drafting environmental regulations.
- Organized multi-media public education and technical assistance activities.
- Promoted from Dakota County Recycling Specialist (1988-1992)

## **EDUCATION:**

- City of Minneapolis
  - Minneapolis Leadership Development Program (120 hour training) 2002
- . Hamline University Saint Paul, Minnesota

Masters of Arts - Public Administration, emphasis in communications (coursework completed)

- CDR and Associates Boulder, Colorado
  - Environmental and Public Policy Mediation (40 hour training) 1994
- . Inver Hills Community College Inver Grove Heights, Minnesota
  - Management Academy (70 hour training) 1992
- University of Minnesota Minneapolis, Minnesota
- . Bachelor of Science Urban Studies Minor Geography (emphasis on energy conservation) 1985

# Gerald F. Pittman, Jr.

16763 Jaguar Place Lakeville, MN 55044 (952) 435-3428

# **Experience**

Vice President Business Development, Director of Commercial Operations, NRG Thermal LLC, Minneapolis, MN. *April 1999 to present*. Responsible for business growth of NRG Thermal LLC ("NRGT") in the thermal energy and combined heat and power industries, developing strategies for growth and directing multi-discipline due-diligence teams utilizing both in-house personnel and outside consultants to develop purchase agreements. Directly responsible for the acquisition of Harrisburg Steam Works, Paxton Creek Cogeneration, Dover Cogeneration and the development of an 88 MW peaking plant at the Dover site which resulted in doubling NRGT's revenues and net income.

Responsible for development of renewable energy strategies including biomass based combined heat and power plants, corn-based and cellulosic ethanol destination plants and corn stover based power plants.

Secondary responsibilities include major marketing for business units resulting in new district energy customers such as PNC Ballpark in Pittsburgh, PA. and for regulatory and Sarbanes-Oxley compliance for NRGT. Direct reports include Regional Environmental Manager, Regional Safety Manager, Regional Business Development Directors and Financial Analyst.

Vice President / Principal, Kattner/FVB District Energy Inc., Minneapolis, MN. October 1994-April 1999. Directed district energy consulting services for utility, privately owned, medical facilities and municipal clients. Responsibilities included new business evaluation and development, strategic plan development; marketing and sales planning, technical planning, conceptual business and technical design, system expansion and operating improvements for district heating, cooling and cogeneration clients. Directed technical personnel in developing new district energy businesses, conducting feasibility studies, managing engineering design projects and developing overall operating systems and programs for production plants and distribution systems. Provided direct marketing and business analysis support to district energy companies.

Conducted operations and administrative review for the Board of Directors of the Texas Medical Center's Thermal Energy Cooperative, Houston, TX, resulting in a new business strategic plan that has allowed the business to increase sales by over 250%. Directed district energy business opportunities evaluations for Burlington Electric Department, Burlington, VA; Unicom Thermal Technologies, Chicago, IL; Houston Lighting & Power, Houston, TX; Washington Water Power, Spokane, WA; Harrisburg

Gerald F. Pittman, Jr. Resume Page 2 of 3

Steam Works, Harrisburg, PA; San Diego Power and Cooling Co., San Diego, CA; CenterPoint Energy (formerly Reliant Energy), Houston, TX; Portland General Electric, Portland, OR; and for three confidential utility clients in major US cities. Responsible as the Owner's Engineer for the district energy systems serving Atlantic City's midtown for Conectiv Thermal Systems, Atlantic City, NJ and Northwind Houston's Union Station Plant in Houston, TX.

Vice President, Operations and Administration, District Energy St. Paul Inc., St. Paul, MN. February 1992-October 1994. Responsible for all aspects of the coal- and natural gas-fired heating, cooling and cogeneration plant operations and maintenance and distribution maintenance organizations. Oversaw administrative functions of human resource management, labor negotiation, safety and risk management, insurance and benefits, fuel procurement and purchasing. Implemented numerous maintenance cost-control programs including zero-based budgeting, tracking and forecasting and computer-aided maintenance and inventory management systems. Instituted several new human resource management systems including employee selection system, safety programs and company-wide emergency response program. Started-up and put into commercial operations chilled-water service system, including a 2.5 million-gallon storage facility.

**Director, Kenetech Facilities Management, Meriden, CT.** April 1991-February 1992. Responsible for developing an O&M services subsidiary for Kenetech, Inc. Developed/began implementation of marketing plan to supply O&M services to third-party privately held power plants. Developed four O&M contracts and steam sales agreements. Created operations and management guidelines manuals for use in training personnel on accounting, administrative, safety and standards.

**Director of Operations, UC Operating Services, Baltimore, MD.** May 1988-March 1991. Responsible for startup and ongoing operations of privately owned cogeneration power plants in eastern United States (240 MW on-line or in startup) with secondary responsibility for new business development nationwide. Projects used coal, gas, biomass and waste coal as fuels. Recruited and staffed management positions for 5 plants in three states. Developed/implemented standardized management systems including computer-aided maintenance management; safety program, policies and procedures; and budget tracking and reporting. Developed programs for cost determinations, staffing plans and risk analysis in support of new business development.

**Plant Manager and Owner's Representative**, Pacific — Ultrapower Chinese Station, Jamestown, CA. *July 1985-May 1988*. Responsible for staffing, fuel procurement, employee training, environmental compliance, community relations, startup and ongoing commercial operations of a 25 MW biomass-fueled power plant with a \$1.7 million operating budget. Involved construction, startup and ongoing operations of unit which included one of first commercial applications of thermal de-NO<sub>x</sub> control with ammonia injection.

Gerald F. Pittman, Jr. Resume Page 3 of 3

**Power Plant and Utilities Department Manager**, **Procter & Gamble**, **Green Bay**, **WI.** 1981-1985. Responsible for eight exempt/35 nonexempt subordinates and \$10.5 million annual operating and fuel budget. Managed maintenance organization for paper mill power/utility plants, covering two multifuel (coal and waste products) boilers, air pollution equipment including wet and dry scrubbing system, compressed air stations, river-water treatment facility and bark-fired fluidized bed combustor. Funded and managed construction of \$700,000 capital-improvement projects. Developed and implemented plant-wide bidding procedures.

# **Education**

Masters of Business Administration (Operations and Finance Options). Loyola College. Baltimore, MD. 1991.

**Bachelor of Science in Mechanical Engineering.** University of Minnesota. Minneapolis, MN. 1981.

# **Certifications**

LEED AP - December 2008

# <u>Memberships</u>

Vice Chair, Board of Directors - Dakota Electric Association Chairman, Board of Directors - Midwest Energy Services Chairman, Board of Directors - Energy Alternatives, Inc. Past Member on Board of Directors - International District Energy Association American Society of Mechanical Engineers

# Papers/Publications

"Exxon Thermal DeNOx Effectiveness Demonstrated in a Wood-Fired Boiler" National Waste Processing Conference. 1988

"Commissioning a District Cooling System." IDEA Conference. 1994.

"Ammonia: Choice, Change and Challenge." IDEA Conference. 1995.

"Thermal Energy Storage in North American District Cooling." Swedish District Heating Conference, 1998

# Stacy A. Miller

170 Nina Street Saint Paul, MN 55102

(651) 282-5091 stacy.miller@state.mn.us

#### Education

Humphrey Institute of Public Affairs, University of Minnesota, Minneapolis, MN Master of Science in Science, Technology, and Environmental Policy Candidate Degree anticipated August 2009. Thesis topic is Solar PV Valuation; Graduate coursework included *Solar Thermal Design Principles* with Professor Jane Davidson of the University of Minnesota Solar Energy Laboratory.

**Arizona State University**, Tempe, AZ Bachelor of Science in Physics, December 1995 Member, *Society of Physics Students* 

# **Experience**

# Minnesota Department of Commerce, State Energy Office State Programs Administrator, Solar Programs 2006-present

Public outreach and education; Solar policy support; Develop and administer three solar programs; Technical assistance and outreach to Minnesota's communities; Co-coordinate SolarMinnesota meetings attended by utility, installer, non-profit, local and federal government stakeholders; Executive team member of Minneapolis Saint Paul Solar America Cities project.

# Archibald Bush Sustainability Initiative, University of Minnesota

Research Assistant, 2006 spring semester

Outlined the challenges of sustainability in Minnesota. Collected energy data necessary to describe outcomes from energy policies on Minnesota's long term environmental health.

# Sunny Solutions Energy Company, Co-owner, 1995-2005

Solar thermal repair and maintenance. Evaluated homes for renovation with the goal of increasing energy efficiency and market value. Secured financing, planned improvements, and marketed homes upon completion.

# University of Toledo, Department of Physics and Astronomy

Undergraduate Intern and Research Assistant, 1995-1996 Fabricated/characterized cadmium telluride thin film solar cells deposited on glass. Reported findings/collaborated with Deposition Team to improve performance.

#### **Publications**

Interdiffusion of CdS/CdTe in laser-deposited and RF sputtered alloys, bilayers and solar cells Fischer, A. Narayanswamy, C. Grecu, D.S. Bykov, E. Nance [Miller], S.A. Jayamaha, U.N. Contreras-Puenta, G. Compaan, A.D. Stan, M.A. Mason, A.R. Dept of Phys. & Astron., University of Toledo; Twenty Fifth IEEE Photovoltaic Specialists Conference, 1996.